How do I get AREPS environmental data from the Centralized Atmospheric Analysis and Prediction System (CAAPS)?

Requirements

- A Java enabled browser using the Java Runtime Environment (JRE) 1.4.2 or higher.

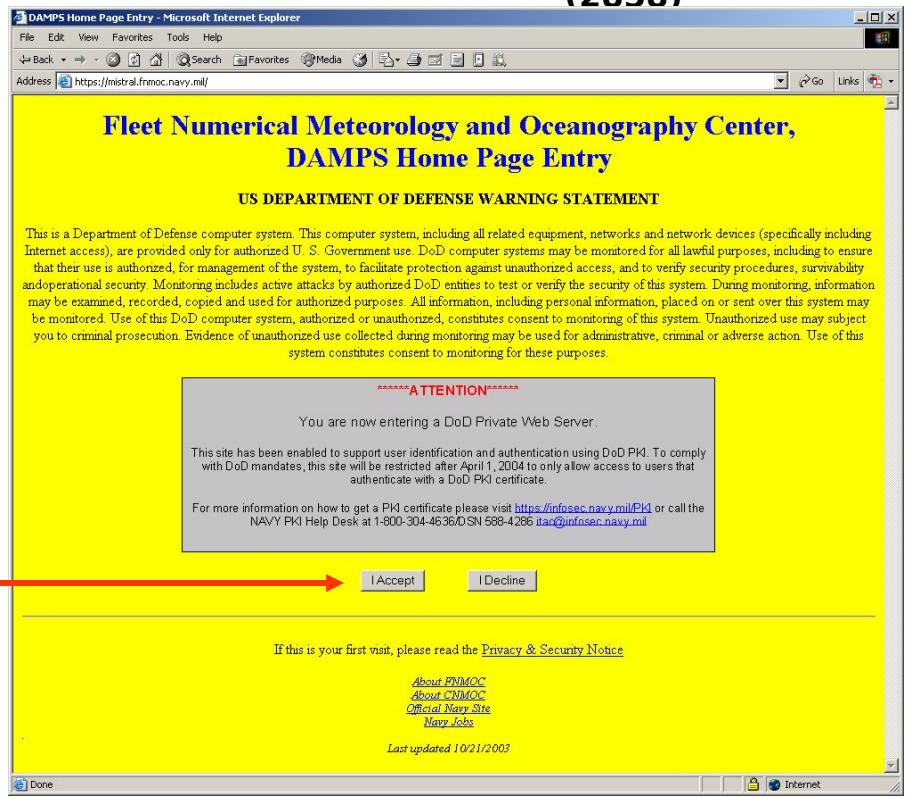
- A United States Department of Defense PKI certificate installed in your browser.

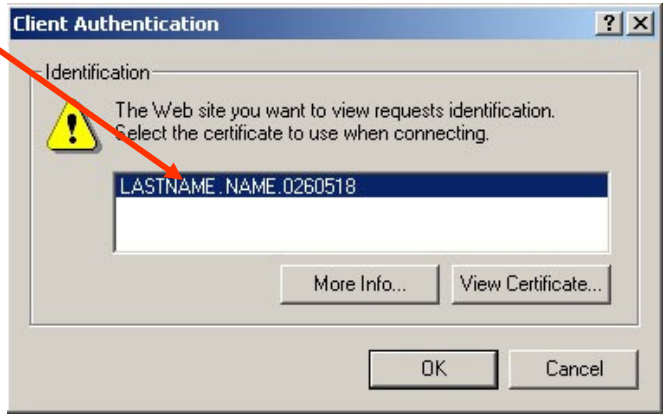
- AREPS 3.0 or higher

Step 1: Go to the FNMOC home page entry.

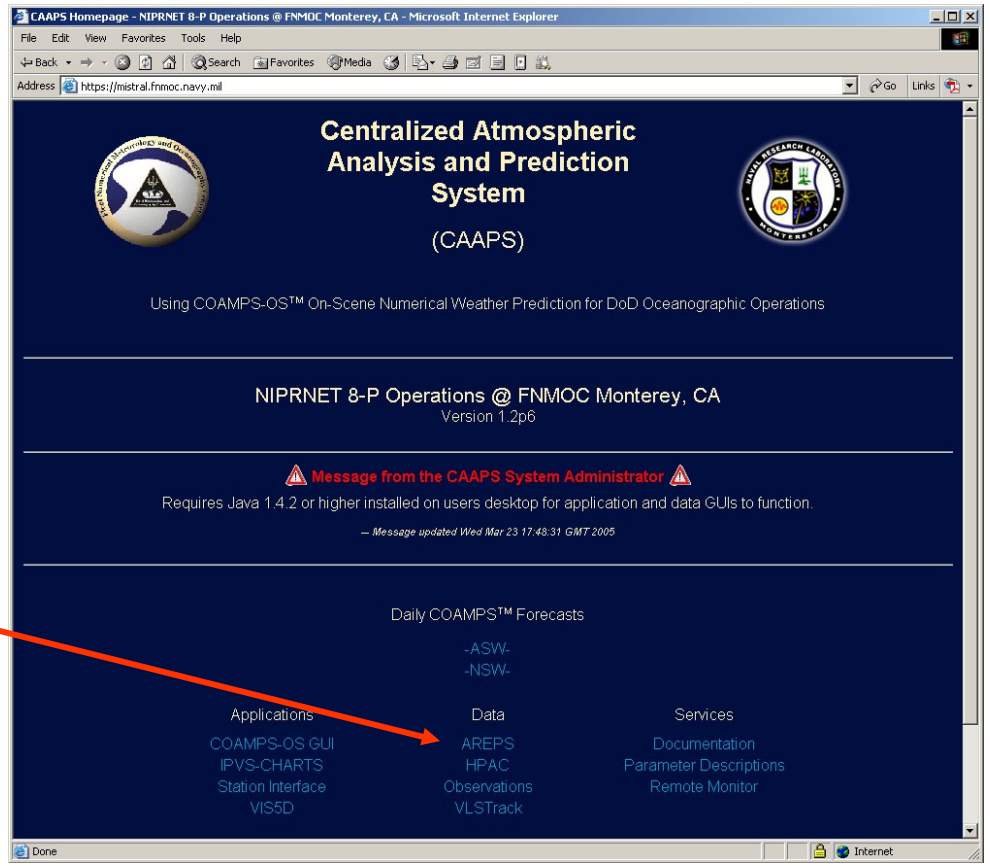
Step 2: Click on the “I Accept” button.

Step 3: Select your installed PKI certificate and click OK.

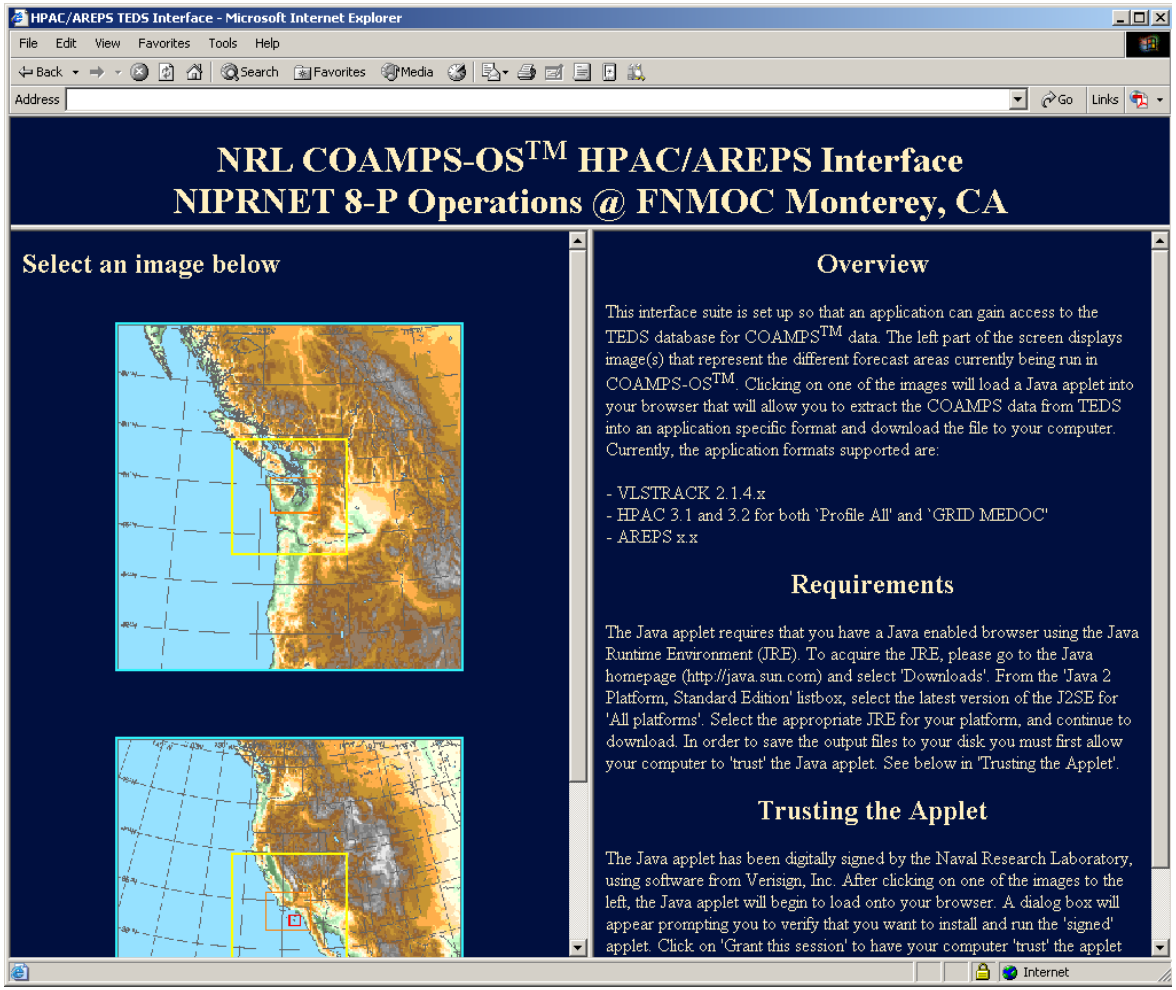

DAMPS Home Page Entry - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address https://mistral.fnmoc.navy.mil/
Fleet Numerical Meteorology and Oceanography Center,
DAMPS Home Page Entry
US DEPARTMENT OF DEFENSE WARNING STATEMENT
This is a Department of Defense computer system. This computer system, including all related equipment, networks and network devices (specifically including Internet access), are provided only for authorized U. S. Government use. DoD computer systems may be monitored for all lawful purposes, including to ensure that their use is authorized, for management of the system, to facilitate protection against unauthorized access, and to verify security procedures, survivability andoperational security. Monitoring includes active attacks by authorized DoD entities to test or verify the security of this system. During monitoring, information may be examined, recorded, copied and used for authorized purposes. All information, including personal information, placed on or sent over this system may be monitored. Use of this DoD computer system, authorized or unauthorized, constitutes consent to monitoring of this system. Unauthorized use may subject you to criminal prosecution. Evidence of unauthorized use collected during monitoring may be used for administrative, criminal or adverse action. Use of this system constitutes consent to monitoring for these purposes.
******ATTENTION******
You are now entering a DoD Private Web Server.
This site has been enabled to support user identification and authentication using DoD PKI. To comply with DoD mandates, this site will be restricted after April 1, 2004 to only allow access to users that authenticate with a DoD PKI certificate.
For more information on how to get a PKI certificate please visit https://infosec.navy.mil/PKI or call the NAVY PKI Help Desk at 1-800-304-4636/DSN 588-4286 itao@infosec.navy.mil
I Accept
I Decline
If this is your first visit, please read the Privacy & Security Notice
About FNMOC
About CNMOC
Official Navy Site
Navy Jobs
Last updated 10/21/2003
Done
Internet



Step 4: For COAMPS gridded data, click on the **AREPS** link. For further instructions on this technique, refer to the Power Point presentation – "How to get HPAC data for AREPS."



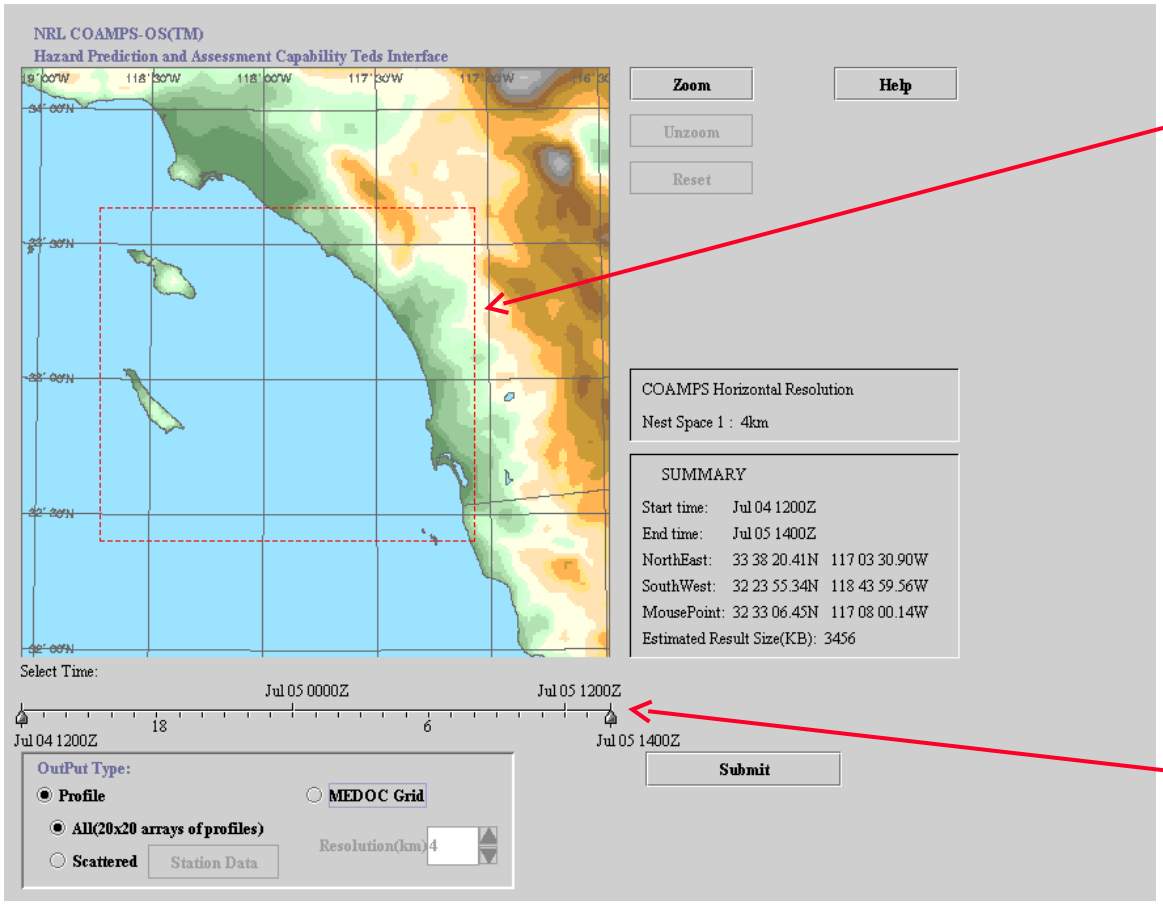
HPAC/AREPS Interface


HPAC/AREPS TEDS Interface - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address
Go Links
NRL COAMPS-OS™ HPAC/AREPS Interface
NIPRNET 8-P Operations @ FNMOC Monterey, CA
Select an image below
Overview
This interface suite is set up so that an application can gain access to the TEDS database for COAMPS™ data. The left part of the screen displays image(s) that represent the different forecast areas currently being run in COAMPS-OS™. Clicking on one of the images will load a Java applet into your browser that will allow you to extract the COAMPS data from TEDS into an application specific format and download the file to your computer. Currently, the application formats supported are:
- VLSTRACK 2.1.4.x
- HPAC 3.1 and 3.2 for both 'Profile All' and 'GRID MEDOC'
- AREPS x.x
Requirements
The Java applet requires that you have a Java enabled browser using the Java Runtime Environment (JRE). To acquire the JRE, please go to the Java homepage (http://java.sun.com) and select 'Downloads'. From the 'Java 2 Platform, Standard Edition' listbox, select the latest version of the J2SE for 'All platforms'. Select the appropriate JRE for your platform, and continue to download. In order to save the output files to your disk you must first allow your computer to 'trust' the Java applet. See below in 'Trusting the Applet'.
Trusting the Applet
The Java applet has been digitally signed by the Naval Research Laboratory, using software from Verisign, Inc. After clicking on one of the images to the left, the Java applet will begin to load onto your browser. A dialog box will appear prompting you to verify that you want to install and run the 'signed' applet. Click on 'Grant this session' to have your computer 'trust' the applet
Internet

Step 5: If needed, follow the instructions to obtain and install the Java Runtime Environment

Step 6: To the left of the interface is a series of data area maps. Click on the map you would like to use. The map scales correspond to the COAMPS grid resolution.

Select COAMPS data coverage area and times



Step 7: Left-click on the map and drag your mouse to open a rubberband box. Size and position the rubberband box to enclose the area you want data for.

Step 8: Left-click the Profile output type option button.

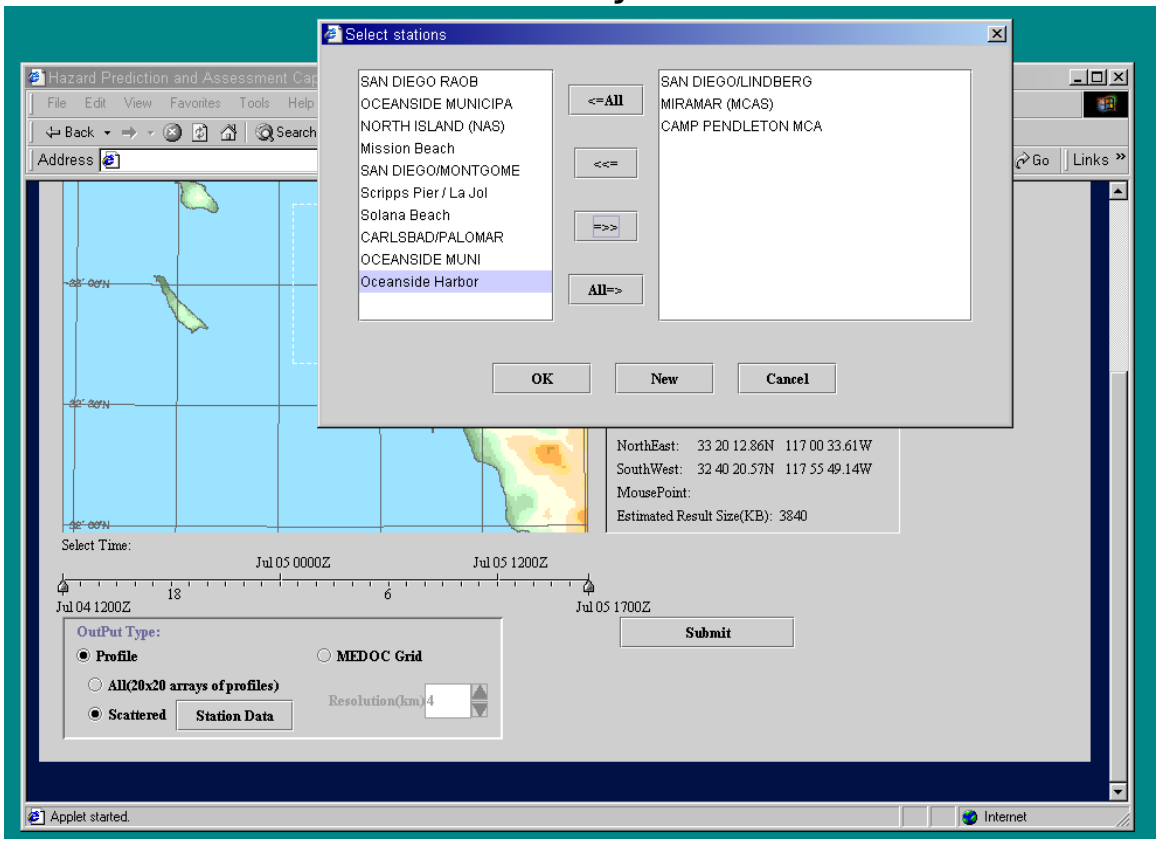
Step 9: Left-click the All (20x20 arrays of profiles) option button.

Step 10: If desired, drag the time slider arrows to define the start and stop times you would like data for.

Step 11: Left-click the Submit command button.

Optional scattered station coverage area and times

Rather than selecting the All (20x20 array of profiles) option button, you may choose to select individual stations by name



Step 12: Left-click the Scattered option button.

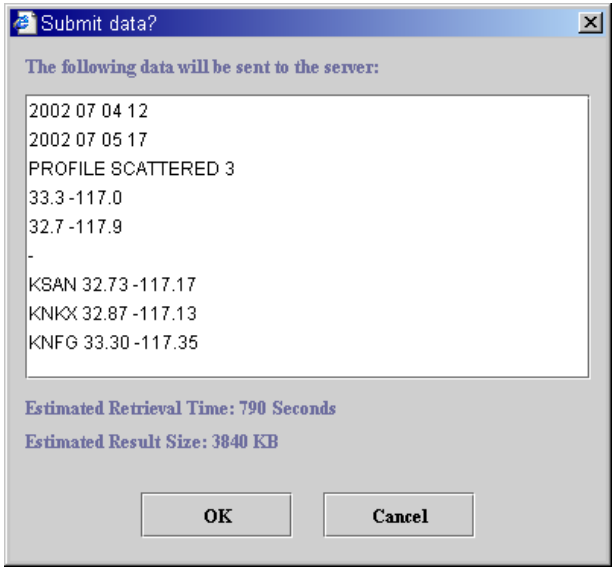
Step 13: Left-click the Station Data command button. A station popup window will open.

Step 14: From the station popup window, left-click the station(s) you desire and click the =>> command button.

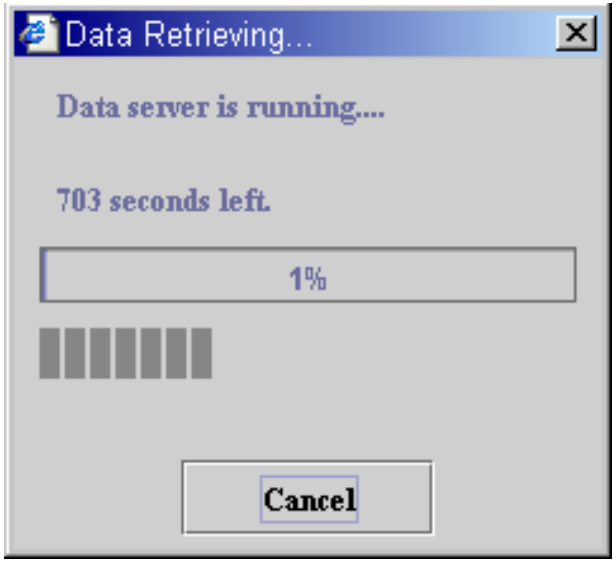
Step 15: When finished selecting stations, left-click the OK command button.

Step 16. Left-click the Submit command button.

Confirm and download data

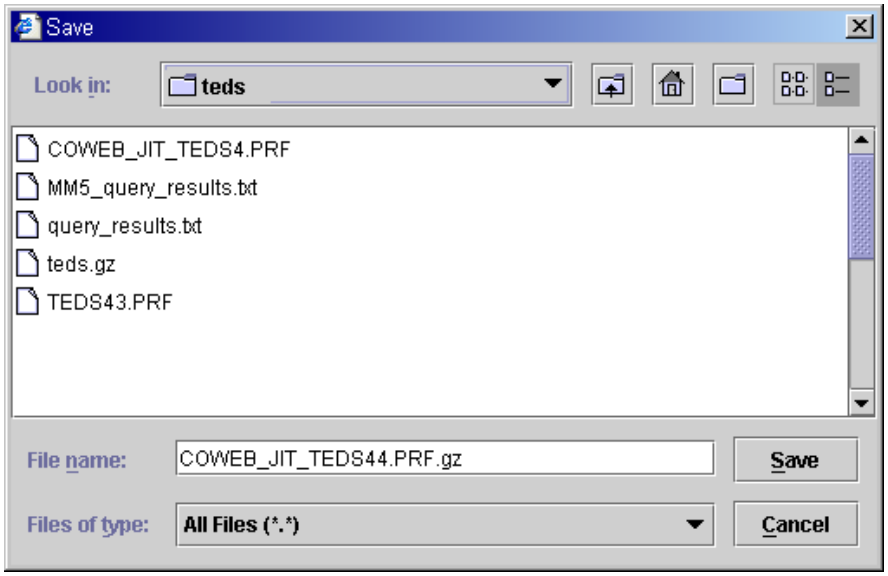


Step 17: Once the Submit command button is clicked, a submit data? window will open showing your selections. If correct, left-click the OK command button. If not, left-click the Cancel command button.



Step 18: A data retrieving window will now open, showing you the status of your download. You may stop the download by clicking the Cancel command button.

Save the data file



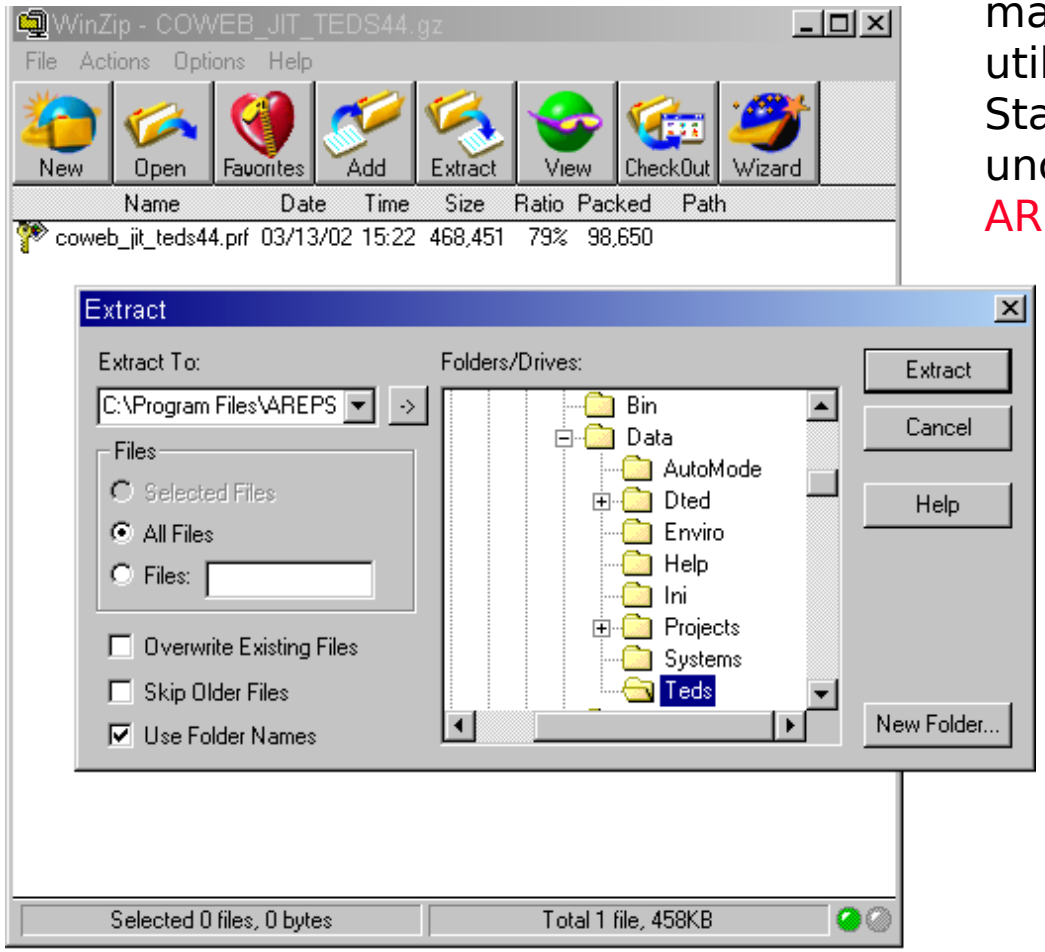
Step 19: When the data download is complete, a Save window will open. Using the command buttons of the window, browse to the AREPS30\data\teds folder and left-click the Save command button.

If you should click on a folder name within the save window, the file name will disappear from the file name box. This is a bug in Sun's Java save window. It is best to write down the name of the file so you may enter it again should the need arise.

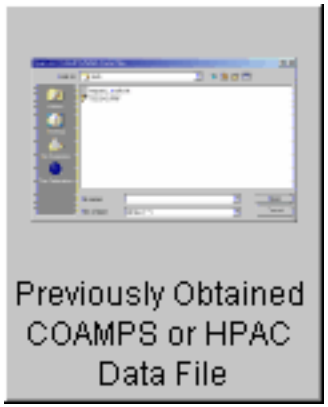
Once saved, a success window will open. Simply click the OK c

Unpack the COAMPS data file

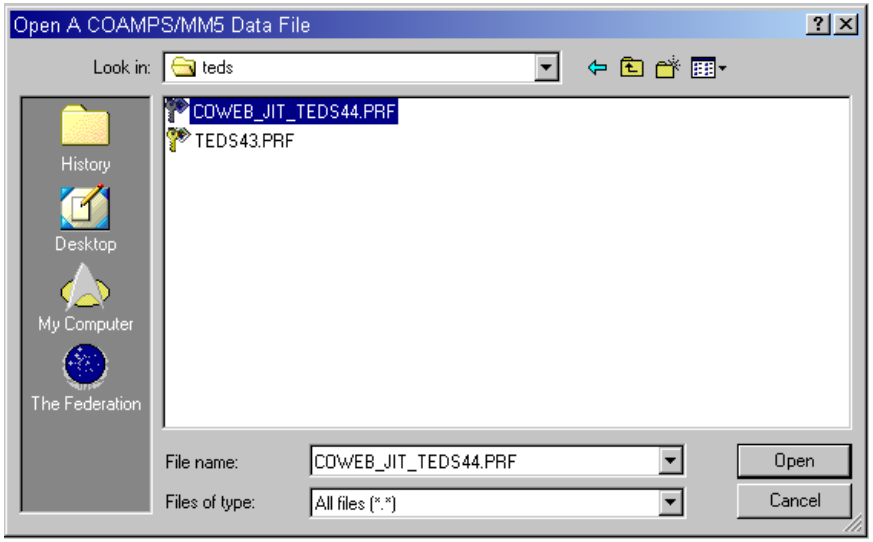
Step 20: The COAMPS data file has a .gz extension on its name. This is a compressed file which may be uncompressed with a utility program such as WinZip. Start your utility program and uncompress the file into the AREPS30\data\teds folder



AREPS Previously Obtained COAMPS or HPAC Data File

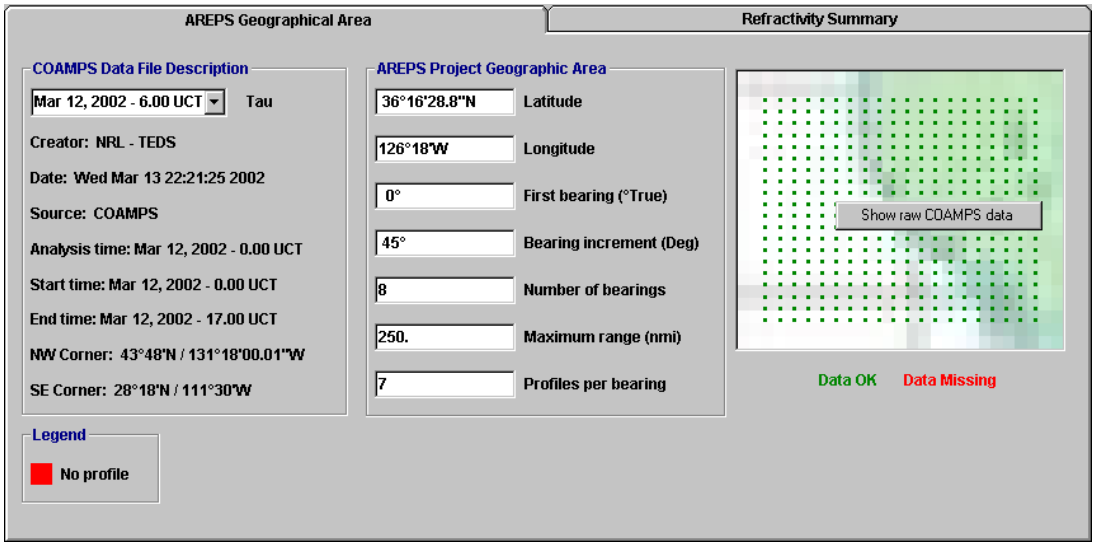


Step 21: Start the AREPS environment creation program and left-click on the Previously Obtained COAMPS or HPAC Data File quick-start command button.



Step 22: When the Open A COAMPS/MM5 Data File window opens, left-click the data file you just uncompressed and then left-click the Open command button.

Data Time and Area Extraction Definitions



Step 23: Select a desired Tau from the Tau dropdown menu.

Step 24: Enter the appropriate AREPS project geographical area information. (You may click on the map to automatically select a latitude and longitude).

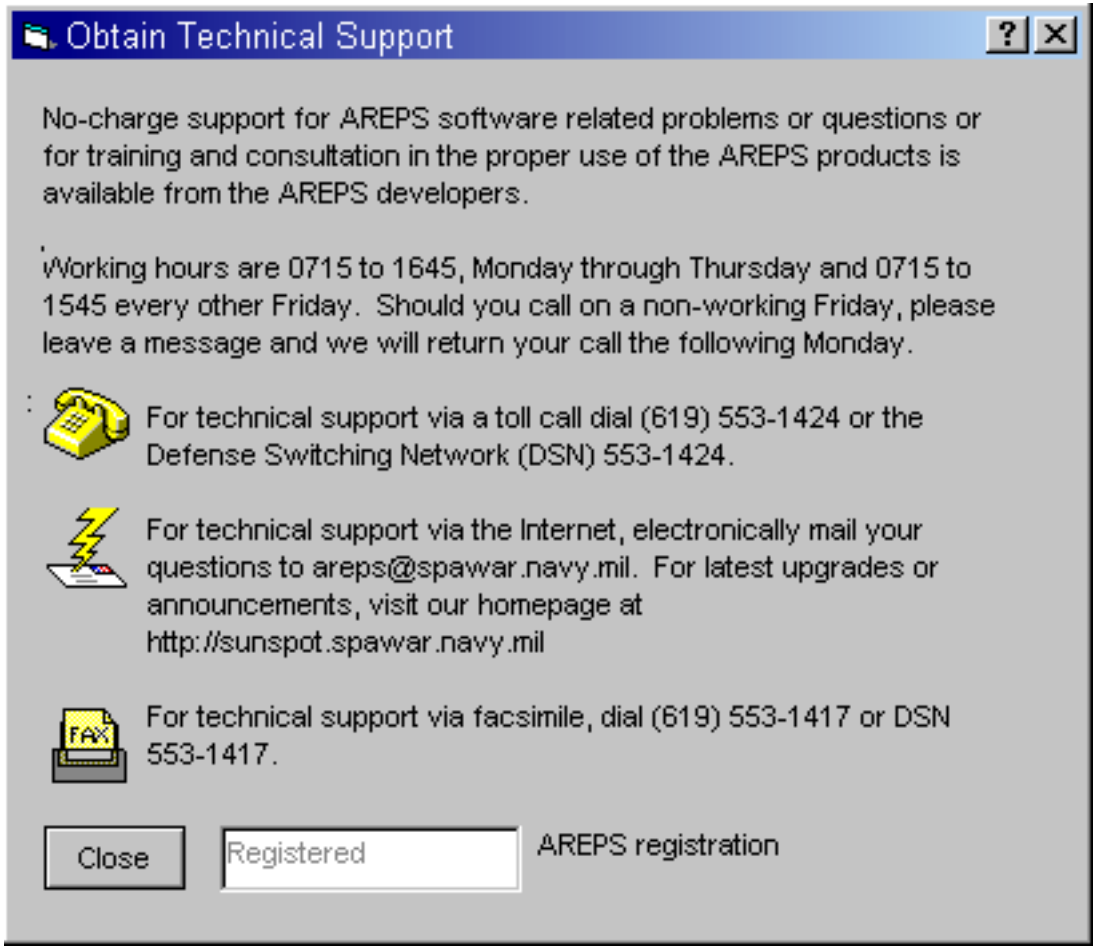
Step 25: Click the Extract Profile toolbar button.

Step 26: If there are no errors, the legend label turns green and the legend text will say Profile OK. At this point you may view the refractive summary display.

Step 27: Click the Save toolbar icon and give this profile a name of your choice.

Step 28: Create your AREPS project and select this profile from the environmental dropdown menu.

For questions, refer to the technical support window of AREPS.


Obtain Technical Support
No-charge support for AREPS software related problems or questions or for training and consultation in the proper use of the AREPS products is available from the AREPS developers.
Working hours are 0715 to 1645, Monday through Thursday and 0715 to 1545 every other Friday. Should you call on a non-working Friday, please leave a message and we will return your call the following Monday.
For technical support via a toll call dial (619) 553-1424 or the Defense Switching Network (DSN) 553-1424.
For technical support via the Internet, electronically mail your questions to areps@spawar.navy.mil. For latest upgrades or announcements, visit our homepage at http://sunspot.spawar.navy.mil
FAX
For technical support via facsimile, dial (619) 553-1417 or DSN 553-1417.
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